Douglas Coates

RESEARCH POSITIONS

Postdoctoral Research Associate, EPSRC funded position under the supervision of Mark Holland, The University of Exeter, Exeter, United Kingdom — Apr. 2022 - Present

Postdoctoral Researcher, under the supervision of Sylvain Crovisier, Université Paris Saclay (CNRS), Paris, France — Sep. 2021 - Mar. 2022

EDUCATION

PhD. **Mathematics**, under the supervision of Mark Holland and Dalia Terhesiu, — Oct. 2016 - Jan. 2021

MSci Mathematics, University of Bristol — Sep. 2012 - Sep. 2016

PUBLICATIONS AND PREPRINTS

[1] Douglas Coates and Stefano Luzzatto. *Persistent Non-Statistical Dynamics in One-Dimensional Maps*. 2023. doi: 10.48550/ARXIV.2302.11411. url: https://arxiv.org/abs/2302.11411.

[2] Douglas Coates, Stefano Luzzatto, and Muhammad Mubarak. "Doubly Intermittent Full Branch Maps with Critical Points and Singularities". 2022. doi: 10.48550/arXiv.2209.12725. arXiv: 2209.12725 [math]. url: http://arxiv.org/abs/2209.12725.

[3] Douglas Coates. "Semi-Stable Laws for Intermittent Maps". 2021. url: https://ore.exeter.ac.uk/repository/handle/10871/124410.

[4] Douglas Coates, Mark Holland, and Dalia Terhesiu. "Limit Theorems for Wobbly Interval Intermittent Maps". In: *Studia Mathematica* 261.3 (2021), pp. 269–305. issn: 0039-3223. doi: 10.4064/sm200427-21-11. url: https://doi-org.uoelibrary.idm.oclc.org/10.4064/sm200427-21-11.

VISITING POSITIONS

Visitor of Ali Tahzibi, University of São Paulo, Campus São Carlos, São Carlos, Brazil — Nov. 2022

Visitor of Marcelo Viana, Instituto de Matemática Pura e Aplicada, Rio de Janeiro, Brazil — Oct. - Nov. 2022

Visitor of Stefano Luzzatto, The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy — May - Dec. 2022

Visitor of Stefano Luzzatto, The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy — Feb. - Aug. 2021

TEACHING

Academic Programme Manager and Senior Tutor, International Mathematics Master (ICTP programme in Pakistan),
Responsibilities: problems classes, lecturing, course preparation, administration, exam writing, supervision of master's thesis
Courses: commutative algebra, real analysis and measure theory, differential geometry, probability, dynamical systems, functional analysis, differential equations

Jul. 2020 - Jan. 2022

Teaching Assistant at ICTP, Trieste, Italy
Responsibilities: problems classes, homework marking
Courses: dynamical systems and ergodic theory (master's level)

Feb. - Aug. 2021

Teaching Assistant at the University of Exeter, Exeter, UK
Responsibilities: problems classes, exam marking, homework marking
Courses: mathematical structures (1st year), mathematical methods (1st year), signals series and transforms (2nd/3rd year), stochastic processes (2nd/3rd year), metric spaces and topology (3rd/4th year)

2016 - 2020

RESEARCH TALKS

Persistent non-statistical behaviour in one-dimension	Universidade de São Paulo	Nov. 2022
Intermittency and non-statistical behaviour	Jangada Dinamica Conference - Universidade Federal do Ceará	Nov. 2022
Statistical Properties of interval maps with 2 neutral fixed points and a singular/critical print	Université Paris Saclay	Sep. 2021
Semi-stable laws for wobbly intermittent interval maps	University of Bristol	Oct. 2019
Limit theorems in the absence of regular variation	The University of Exeter	Jan. 2018